经验证的 医多种性性 医多种性 医多种性

OL'KHOVOY, L. S.

OL'KHOVOY, L. S. -- "The Effect of Columbium and Zirconium on the Properties of Chrome Steel." Min Higher Education USSR. Moscow Order of Labor Red Banner Inst of Steel imeni I. V. Stalin. Moscow, 1955. (Dissertation for the Degree of Candidate of Technical Sciences.)

SO: Knizhnaya Letopis', No 5, Moscow, Feb 1956

01, KHO 10 2 Pr 2-

AUTHORS: Vishnyakov, D. Ya., Doctor of Technical Sciences Prof. and Ol'khovoy, L. S., Candidate of Technical Sciences. 129-9-5/14
Pearlitic transformation in chromium steel containing

niobium and zirconium. (Perlitnoye prevrashcheniye v TITLE: khromistoy stali, soderzhashchey niobiy i tsirkoniy).

PERIODICAL: "Metallovedeniye i Obrabotka Metallov" (Metallurgy and Metal Treatment), 1957, No.9, pp.18-21 (U.S.S.R.)

ABSTRACT: The results are described of experiments relating to isothermal transformation of the austenite of chromium steels containing miobium and zirconium. The tests were carried out by preliminary heating to 1000 C and using an Akulov "anisometer" and a microstructural method and also by preliminary heating to 1300 C and using solely a microstructural method. The kinetics of isothermal transformation of the austenite and the microstructure of its decomposition products proved analogous for all the investigated alloys. Therefore, the 2.07% Cr, 0.05% Zr, 0.017% S and 0.016% P. of the results the authors conclude that during isothermal Card 1/2 transformation of super-cooled austenite of chromium steel

Pearlitic transformation in chromium steel containing niobium and zirconium. (Cont.) 129-9-5/14

with niobium and zirconium the form of the separated out pearlite changes in the pearlitic range with increasing super-cooling below the temperature of the upper bend of the S-shaped curve and the evolution of acicular pearlite formations can be observed. In the upper part of the intermediate range the isothermal transformation of austenite into acicular troostite does not proceed fully, a certain fraction of non-transformed austenite remains which, after a certain time, becomes transformed into acicular pearlite. There are 5 figures (graphs and micro-photographs), and two German references.

AVAILABLE:

Card 2/2

ONKHOVOY, 2.5

137-58-3-5986

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 219 (USSR)

AUTHORS: Vishnyakov, D. Ya., Ol'khovoy, L.S.

TITLE: The Effect of Niobium and Zirconium on the Anneal Brittleness of Chromium Steel (Vliyaniye niobiya i tsirkoniya na otpusknuyu

khrupkost' khromistoy stali)

PERIODICAL: Sb. Mosk. in-t stali, 1957, Vol 36, pp 131-146

ABSTRACT:

An account of an investigation of the effect of Nb(0.25-1.0 percent) and Zr(0.05-0.50 percent) on the anneal brittleness (AB) of Cr steel containing 0.31-0.41 percent C, 0.30-0.51 percent Mn, 0.25-0.42 percent Si, 1.75-2.30 percent Cr, 0.017-0.023 percent S, and 0.013-0.23 percent P. A portion of the steel melts contained 0.37 percent Mo, two melts contained W (0.35 percent and 0.60 percent), and one melt contained 0.18 percent V. Susceptibility to AB was evaluated from the difference in critical temperatures of brittleness (T_{br}) before and after annealing.

After tempering (T) starting at temperatures equivalent to $Ac_3+(30-50^\circ)$, Ac_3+100° , and Ac_3+300° , the specimens were annealed at 620-680°C and were then rendered brittle by heating

Card 1/3

137-58-3-5986

The Effect of Niobium and Zirconium (cont.)

to 500° for a period of 12 hours, followed by cooling in the furnace. Impact tests were conducted at temperatures ranging from -780 to +4000. The highest experimental temperature at which traces of brittle failure began to appear in the fractured region was taken as the Tbr. It was established, by means of carbide analysis, that Nb begins to change into a solid solution only at T temperatures of 1200° and above. The Nb present in the solid solution reduces the susceptibility of Cr steel to AB and lowers the Tbr, while the Nb present in the steel in the form of carbides does not appreciably influence the susceptibility of Cr steels to AB and raises the T_{br} considerably. Introducing 0.6 percent W into the steel considerably reduces its susceptibility to AB and lowers the Tbr at tempering temperatures starting at 1000°; after T at temperatures starting at 1200°, however, the effect of W is considerably less. Adding Mo to steel containing Nb does not eliminate the tendency of steel to AB. Simultaneous presence of Nb, Mo, V, and Cr in the solid solution increases the tendency toward AB. V greatly increases the susceptibility to AB in Cr-Nb-Mo steel. Zr affects the AB in a manner analogous to the effect of Nb. Introduction of Mo into a Cr-Zr steel very substantially reduces the tendency for AB and simultaneously lowers the Tbr. Steels with greater tendency for AB are characterized by greater susceptibility to etching of grain boundaries. The AB is not as much determined by the total amount of elements present in the steel as by the content of these elements in a layer Card 2/3

137-58-3-5986

The Effect of Niobium and Zirconium (cont.)

disposed on the grain boundaries where the processes responsible for the AB occur.

M. Sh.

Card 3/3

THE RESERVE CONTRACTOR OF THE PROPERTY OF THE

VISHEYAKOV, D.Ya., doktor tekhn.nauk; OL'KHOVOY, L.S., kand.tekhn.nauk

Isothermal transformation of undercooled austenite in chromium steel containing niobium and zirconium. Sbor. Inst. stali no.39:325-326 160. (MIRA 13:7)

1. Kafedra metallovedeniya i termicheskoy obrabotki Moskovskogo ordena Trudovogo Krasnogo Znameni instituta stali im. I.V.

Stalina. (Chromium steel-Metallography) (Niobium)

OL'KHOVSKAYA, Gutya Shlemovna

Reactions of Tuberculosis in Children and Some Physio*Therapeutical Influence

Dissertation for Medical Science degree. Chair of Pediatrics (lechfaka) (head, Prof. P.A. Byreyev) Saratov Medical Institute, 1950

OL'KHOVSKAYA, G.S. kandidat meditainakikh nauk; TRYNKIN, A.P., dotsent, direktor.

Heat regulation reflex in children with rhemmatism. Vop.pediat. 21 no. (MLRA 6:6) 2:21-24 Mr-Ap 153.

1. Klinika detakikh bolezney lechebnogo fakuliteta Suratovskogo meditsinskogo instituta. (Rheumatism) (Temperature, Animal and human)

TRYNKIN, A.P., dotsent; OL'KHOVSKAYA, G.S., kandidat meditsinskikh nauk

Nervous system function test in rheumatism in children. Pediatrila no.5:28-32 S-0 *54.

1. Is kafedry detakikh bolezney (zav. dotsent A.P.Bynkin) lechebnogo fakul'teta Saratovskogo meditsinskogo instituta.

(RHEUMATISM, in infant and child,
nervous system funct. test in)
(NERVOUS SYSTEM, in various diseases,
rheum. in child.)

THYMELE, A.P., dotsent; Ol'as fortists.

Studying cortical newodynamics in children with rhemmatic fever.
Pediatrin no.2:18-x 2 57.

1. Iz kliniki detakikh boleznay (dir. - dotsent A.P. Trynkin)
lechabnogo fakul'teta Saratovakogo meditainakogo inatituta
(HHEUMATIC PEVER) (NERVOUS SYSTEM)

OL' KHOVSKAYA, I.G.

Structure of the cavity wall in pneumonactonized lungs [with summary (NIPA 11:8) French]. Probletub. 36 no.5:85-92 *58:

1. Iz patologoanatomicheskogo otdeleniya (zav. - prof.B.P. Ugryumov) Moskovskogo nauchno-issledovatel skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (dir. V.F. Chernyshev, zamostitel' dir. po nauchnoy chasti - prof. D.D. Aseyev).
(TUBERCULOSIS, PULMONARY, pathology

cavity wall structure in surg. specimens (Rus))

CIA-RDP86-00513R001238020002-3" APPROVED FOR RELEASE: 06/15/2000

CL'KHOVSKAYA, I. G.: Master Med Sci (diss) -- "Changes in the wall of a tuberculous cavern with treatment by antibiotics and chemical preparations". Moscow, 1959. 12 pp (Acad Med Sci USSR) (KL, No 13,1959, 112)

GETMANSKAYA, Z.M.; OL'KHOVSKAYA, I.G.

Multiple ansurysms of the vessels of the basal portion of the brain. Vop.neirokhir. 24 no.1:36-37 Ja-F 160. (MIRA 13:10) (INTRACRANIAL ANEURYSMS)

RYBAKOVA, N.I.; OL'KHOVSKAYA, I.G.

Clinical X-ray diagnosis of metastasis of cancer of the breast into the lungs. Vop. onk. 11 no.6:21-27 '65. (MIRA 18:8)

The second secon

1. Iz Instituta eksperimental noy i klinicheskoy onkologii AMN
SSSR (dir. - prof. N.N.Blokhin, zav. rentgenologicheskim otdelom >
prof. I.L.Tager, zav. otdelom patomorfologii - prof. N.A.Krayevskiy).

REATENUERTY, N.A.; CH. KHOWSKAYA, I.G.: SOLOW YEV. Yu.E. (Moskva)

Book reviews. Arkh. pat. 27 no.8:82-84. *65.

1. Deystvitel nyv chlen AMN SSSR (for Krayevskiy).

(MIRA 18:10)

OL Khousk AyA, M.S. (Leningred)
SHCHERBA, M.L.; GUBAR', P.S.; OL'KHOVSKAYA, M.S. (Leningred)

Late results of antidiotic treatment in subscute septic endocarditie.
Klin.med. 35 no.5:19-24 My '57. (MIRA 10:8)

1. Iz kliniki gospital'noy terapii (nach. - prof. N.S.Molchanov)

Voyenno-meditsinskoy ordena Lenin a akademii imeni S.M.Kirova
(ENDOGARDITIS, SUBAGUTE BAGTERIAL, ther.

antibiotica, follow-up)
(ANTIBIOTICS, ther. use

endocarditis, subacute bacterial, follow-up)

OL'KHOVSKAYA-BURKOVA, A.K.

Species of leaf rollers injurious to fruit crops of the Ukraine.
Zool. zhur. 42 no.5:692-696 '63. (MIRA 16:7)

1. Umanskiy sel'skokhozyaystvennyy institut.
(Ukraine--Leaf rollers)
(Ukraine--Fruit--Diseases and pests)

OL'KHOVSKIY, A.A.

Requirements of a public inspector. Bezop.truda v prom. 5 no.3:31 Mr *61. (MIRA 14:3)

1. Obshchestvennyy inspektor shakhty No.18-bis tresta Yemanzhelinugol' Chelyabinskogo sovnarkhoza.

(Mine inspection)

s/716/61/018/000/010/019 D207/D301

Pevraleva, M. Ye., Nepokrytyy, Ya. P. and Ol'khovskiy, AUTHORS:

B. W.

Testing of complex-shaped magnets

Akademiya nauk Ukrayins'koyi RSR. Instytut elektrotekh-TITLE: niky. Spornik trudov, v. 18, 1961. Voprosy magnitnykh SOURCE:

izmereniy, 84-89

TEXT: The authors studied hysteresis curves of permanent magnete shaped like a horseshoe or a hollow cylinder. For the former, it was found that reliable results (within 3%) can be obtained by measurements in the neutral plane (middle of the magnet) on the outer convex side of the horseshoe; elsewhere in the neutral plane the measured magnetic properties were affected by the magnet poles. For the cylindireal magnet an allowance has to be made for the flux in air inside the magnet if the ratio S_2/S_1 is greater than 0.5; here S_1 and S_2 are the total and the internal (air-filled) crosscard 1/2

OL'KHOVSKIY, B.R.

Overall mechanization for working frozen ground at the Kemerovo Transportation Road Project. Mekh. stroi. 21 no.3:10-12 Mr 64. (MIRA 17:3)

MARITEV, D.I., kand.tekhn.nauk; OL'KHOVSKIY, G.G., inzh.; TUSIM, V.I.,inzh.

Selecting a type of gas turbine power generator railroad car.

Blek.sta. 28 no.10:40-43 '57. (MIRA 10:11)

(Blectric generators)

i i	. L					•		_	-					.
			S	E.	178	ä	SA SA	มิ		_	3	%	£	
etaby (Expression to the Confinction and Continuous Collection of Furbin Collection 1956 - 19	responding Maker, londery of Reinass Chilly Mr. (Inside bould): Michilathout Rein, Mr. P. M. Annow. FORMAL The bound of the confidence operialising in the description of the confidence operialising in the description of the confidence of the co	COURLEST This collection of 22 articles deals with account witters, particularly, writting in 12s heat performes of some all computation of optime parameter for gas turbins. The maining said a make of optime parameter for gas turbins. The maining said a make of optime parameter for a turbins. The maining saids and a make of optime for a parameter for predicting the formation of the predict optimes an amountain a parameter for predicting the formation of the for	Evolute, P.E., and To.E. Floride. Investigation of the Percestance of Vivelon of Tubble makes Executions extend the problem of Vivelon of The transfer of the Percentage of Vivelon of Vivelon of The Transfer of the Percentage of Vivelon on the strained, Computation of Marting will be the Vivelon of The Computation of the Transfer of	Explaining Ris. Comparation Analysis of the Burgles Properties of Recolling and Appen of The Burdles Machine and Recolling and Appen of Horing are nonlysed with respect to whenten-darping efficient, General are purchase the descripting efficient, General are purchase the descripting of efficient, properties on impact forces.	Myditem, E. in betamination of the logarithmic between for threaton baping by Laurening the Propagary of Retard (Northinss Methods of manufaction and arrived traping equic of free threaton are discussed and walves for the hypertunic december to delicated	Superiols, L.P. See Bruits of an Exerimental Investigation of Modell-Joyn Manuel Souring. "Ha article Seals with tone stants and serious of testing Meanl. Sourial-type thrust barriage. Several indication optimises are described with reterence to serious reliability and sinfam friends.	Mrsan, L.D., and R.S. Pubr. Depress Seating of Container Thise In Parallyleties the article discusse and evil and sea man mathods and contain marking for the containing containing the angular profits of the steam. Search armanement for "parallyl the and into this shades and for sealing what bones are evaluable.	Eleger, Eth. Methods of Designing des Coolsesses Artensemble of multifer ejector ecolsesses and imports of stages are discussed and design and calonisation sothods gives-	Bellehmyr, Jo.L., ad., 91/1997[A, and G.L. Gerwier. Berder of Fract Aljouisant and resting of a 1,500-brd Car Tirries Plant Recognitional Lesting of a 09-000-1.5 tirring is described.	halahany, Ta.f. falsoting of the Starting Provedure for a des fired halahany, Ta.f. Experimental Stand for Tarting CasAuchies Solvers	Now Warmed Wolfow Miles walves and stress-distribution patterns Allossels thereal-futigue walves and stress-distribution patterns for earthal protor classes of the contents o	SACOULT, A.Y. Optimal benesters for falst Superstates in matricing Cas-furbine Fants Es probles of created superstates were present ratios per tialitical stage to discussed. Several sections for school of the tialitical thereal-efficiency regime are evaluated.	Polynomialy, In.L. Detendation of the Mort Effective Brume by the Regerial of a Carbridge Brust. The subbor presents his one subbot of conjustion, applicable to a timery place, to determine the chemical of representation, effective fine manual control of representative effective manual subbot on a passing an edge of the construction of the consent o	AVAZIARES: Library of Congress
	eaksy (Depression is the Construction and Spantion of Tribino Inita) Collection of Articles) knows, Consergations, 1959. NO 9. Errits slip to-seated. Life Golds printed. Mai. (With stands 17. M. Philantian Penfessor and J. W. Porter or Collection.)	eaksy (Derrowsest in the Contraction and Convicion of Arriton Lites; chilsetten of Arriton Printed. Elde (Hills page): Ye. M. Eldento, Professor, and A. V. Choke Strong, Contracting Mahar, Leaksy of Ediness CLN; Mr. (Inside Mahar, Leaksy of Ediness CLN; Mr. (Inside Mahar): L. S. Ellentons; Mr. Asacov, Mr. (Inside Mahar): L. S. Mahar, Was both Eldento, Mr. Asacov, Mr. (Inside Mahar): L. S. Mahar, Mr. (Insi	chief (Depowhent is the Contraction and Constitue of Turbine Cities to Calledton of Lettine Cities and Constituents (Second Second Seco	chilstelles of Lettins) bescot, Cassargainake, 1959. Not p. Errits ally the settled. 1,150 copies patient. Els. (Hils page): Ye. R. Edinatory, Professor, and A. V. Chertzmary, Carsarpally baber, taskey of Keiness Child. El. (India bab): L. S. Hanov, States and A. V. Chertzmary, Carsarpally baber, taskey of Keiness Child. El. (India bab): L. S. Hanov, Purrors, 186 (India bab): L. S. Hanov, States Child. Els. (India bab): L. S. Cortaman, Cortamary, Paristra Children, C. Chertzmary, Carsarpan, C. Chertzmary, Werkeller of C. States Children, States and Cortamary, Werkeller of Orlina years the States and States and States of Children of C	chiley (Deposite the Controlling and Constitution of America cities challed the Controlling School of America cities challed the Controlling School of America cities and the Controlling School of America cities and the Controlling School of C	chiley (Deposite the No. observation and Construction of Arching miles) contact of Arching miles) selected, 1950, Mon. Pertra miles whiteling of Articles below, factors, 1950, Mon. Pertra miles whiteling the Makes, 1950, Mon. Pertra miles whiteling the Makes, factors of Colons (CLR) Miles factors, for the Makes, factors of CLR) Miles whiteling the Colons of CLR with the No. 1950, Mon. 1950, Mo	chiley (Deposite the No. observation and Constitute of Furtice chiles) settled. 1,550 copies printed. Els. (Hills page): Ye. N. Enhanders, Professor, and A. V. Coberforcer, Cornellist, Mahar, Leaders of Calmans (Elle) [Mission and Mission and M	chiley (Deposite the No. of Societies and Constitute of Furtice cities (Chilette et Stelland) Noise, Consemprishes, 1959. Not 9. Erric ally settled to \$2. \$\text{Minister}\$ \$	collected of Articles of Science of Construction and Construction of Articles of Science of Science of Collected of Science of Science of Collected of Science of Sci	collected of farther of the Controlling and Construction and Collected of Farther ultra- seried. 1,550 copies printed. Rate (Mills pas): N. N. Enhanters, Professor, and N. Controlling Mills of Refilled by M. K. Enhanters, Professor, and N. Controlling Mills of Refilled by M. K. Enhanters, Professor, and N. Controlling Mills of the Controlling Mills of Mills of Controlling Mills of	contacts (the processes of the Consistence and Constitue of Therizo Cities) contacts of Articles Noncour Consentrately, 1959, NO 9. Error ally seried. 1,550 copies printed. Residual Maria (Maria and Maria) Residual Maria (Maria)	chilaride of Lettins is the Conference and Convicte of the Thritish Chairstins of Lettins in the Conference and Convicte of the Thritish Chairstin of Lettins particle. 1959, 500 p. Errits ally supported by the Lettins particles of Lettins of Lettins and Lett	Collished to the Lie of the Controlline, protection of further mitting collished to the Lie of the Collished to the Co	collection of Letticis Meson, Construction, 1959, No. 9. Error ally search 1,550 orgins parish. Electric page 17. E. Entendent, Profesor, and L. V. Debe Tarror, Construction and the page 17. E. 1970 orgins parish. Who collisis which are parish for the farmer than the factor of the collisis of the farmer of

SOV/96-59-10-3/22

Ol'knovskiy, G.G. (Engineer) and Shuvalov, G.I. (Cand. Tech. Sci.) AUTHORS:

Test Results on a Gas Turbine Type GT-12-3 Installed in TITLE: the Shetskeya Station of Podzemgaz (Underground Casification)

PERIODICAL: Teploenergetika, 1959, Nr 10, pp 17-22 (USSR)

ABSTRACT: The first Soviet tandem gas turbine of 12 MW, made by the Leningrad Metal Works, designed to operate on liquid fuel and gas from the underground gasification of Moscow Basin coal, was tested in February 1958. A schematic circuit diagram of the installation is given in Fig 1. commissioning of this set is considered to be an important stage in the development of Soviet gas turbines. Experience with tandem sets of this kind will provide a basis for the development of high-output gas turbines for power stations. Acceptance tests were carried out at noload and at 4, 8 and 12 MW. The performance of the set is not yet fully up to the designer's expectations; it has not been run on its principal fuel, which is gas from the underground gasification of coal, and a number of design faults remain to be corrected. However, the experience so

Card 1/5 far gained enables the works to design and start manufacturing a 25 MW set and to commence the design of a

sov/96-59-10-3/22

海 网络数据 图 图

Test Results on a Gas Turbine Type GT-12-3 Installed in the Shatsk Station of Podzemgaz (Underground Gasification)

sets of comparable output. The places at which measurements were made during the tests are indicated in the schematic diagram of Fig 1; the instrumentation and measurement procedures are described. Power and heat balances derived from the test results are given in Table 1 and show that the tests were accurate to within 1 or in some cases 2%. Graphs of efficiency, fuel consumption and main temperatures as functions of load are given in Fig 3. Graphs of pressures, consumption and speed of the high-pressure turbine as functions of load are in Fig 4. The graphs show that under all conditions of loading the performance is very close to the design requirements. The main test results, given in Table 2. show that at a load of 11.4 MW the efficiency is only 23.4%, which is appreciably lower than the design figure of 27%. This occurs because the degree of regeneration is less than it should be; also there are considerable air leakages at the glands and the compressor efficiencies are somewhat low. When these defects have been corrected

Card 2/5

TO LOS GRAZACIONAS EN PRESENTANTAS EN

SOV/96-59-10-3/22

Test Results on a Gas Turbine Type GT-12-3 Installed in the Shatsh Station of Poddemgaz (Underground Gasification)

the efficiency may be raised to 27% at an electrical load of more than 13 MW. This set is of lower designed efficiency than foreign sets of comparable output because it contains a group of comparatively inefficient centrifugal gas compressors and because the gas ducts are long owing to the complicated layout of the machine and regenerator. It will be seen from Fig 3 that the efficiency at half load is three quarters of the maximum efficiency and the fuel consumption at no-load is a third of that at full load. The efficiencies of the high pressure compressors are some 5-8% low because the arr that they receive from the coolers contains drops of condensed water. In addition to affecting the thermodynamic properties of the compressor, this moisture promotes deposit formation on the blade. Methods of avercoming this difficulty are suggested. When the mathing comes to work on gas, the compressors will not develop so high a pressure as when working on air, and will probably deliver insufficient gas to the combustion chamber. It is, therefore, necessary to increase the compression at it of the medium- and low-pressure groups of gas compressed.

Card 3/5

sov/96-59-10-3/22

Test Results on a Gas Turbine Type GT-12-3 Installed in the Shatsh Station of Podzemgaz (Underground Gasification)

The air consumption at the glands is 7.3 tons per hour, or 2.5% of the total air flow, which is much too big. The heavy rigid construction of the turbine frame has certain disadvantages, and in particular the set takes about five hours to warm up, so that the starting time cannot be reduced to 10-30 minutes as is common in foreign practice. The casing takes much longer to heat up than the shaft and rotor. Data are given about thermal expansiion and temperature differences during starting. During the tests the set ran on diesel fuel and the combustion efficiency was high. However, there was a certain amount of coke formation in the combustion chamber and some pieces of coke were carried over into the turbine. Moreover, the temperature distribution at the turbine inlet was not uniform. The degree of regeneration obtained during the tests was only 66.2% against a designed figure of 80%, mainly because the air was not sufficiently heated in the heaters. It is probable that Card 4/5 part of the heating gases by-pass the heating surface. The air and gas coolers operated satisfactorily.

SOV/96-59-10-3/22

Test Results on a Gas Turbine Type GT-12-3 Installed in the Shatsk Station of Podzemgaz (Underground Gasification)

It is concluded that the set can now operate satisfactorily at full load on liquid fuel, though the efficiency is not up to the design figure. This is a considerable success for the Leningrad Metal Works but they still have a good deal of work to do to achieve the designed

Card performance and to get the set running on its principal

5/5 fuel, gas. There are 4 figures and 2 tables.

ASSOCIATION: Vsesoyuznyy teplotekhnicheskiy institut (All-Union Thermo-Technical Institute)

A STATE OF THE PROPERTY OF THE

SOV/96-59-10-16/22

AUTHORS: Ol'khovskiy, G.G. and Starichenko, V.D. (Engineers)
TITLE: The Use of High-output Gas Turbines at Peak-load Power

Stations

PERIODICAL: Teploenergetika, 1959, Nr 10, pp 82-86 (USSR)

ABSTRACT: This is a general review of foreign practice in the use of gas turbines at peak-load power stations. It is concluded that gas turbines are widely used in this way in the USA, England, Italy, Germany and elsewhere. Gas turbines without regenerator, although of comparatively low efficiency (20-27%) and relatively low unit output (20-40 MW) are already the best prime movers for covering daily and seasonal peak loads with a total duration of 2000-3000 hours per year, even in very large power systems. The advantages of gas turbines are that they are cheap, compact, simple and reliable in operation. They can be started up quickly and power stations may be made automatic so that staff requirements for operation and repair are small. There are 6 figures, 5 tables and 8 references, of which 5 are English, 2 German and 1 Soviet.

37558

s/096/62/000/005/005/009

E194/E454

26.2120

Card 1/2

Molodykh, N.I., Engineer Ol'khovskiy, G.G., Engineer,

An investigation of the operation of a group of air AUTHORS: compressors forming part of a gas turbine set TITLE:

PERIODICAL: Teploenergetika, no.5, 1962, 51-56 The tests described in this article were made on a gas turbine set type FT-12-3 JM3 (GT-12-3 LMZ) with high, medium and low pressure air compressors. Tests were made under a wide range of operating conditions, including those under which compressor operation became unstable and most of the article comprises Recommendations made to avoid the risk of surging of compressors in service include: when the load is reduced recirculation in the low pressure air compressors should be commenced in good time; if the speed of the high pressure turbine falls (for a given inlet temperature) the machine should be inspected for fouling and cleaned if necessary; the inlet temperatures of intermediate pressure and high pressure air compressors should be measured and kept to a minimum. These recommendations apply when conditions change relatively slowly.

S/096/62/000/005/005/009 E194/E454

An investigation of the operation ...

Tests were also made with sudden changes brought about by rapid alteration of fuel supply and of recirculation of the gas compressors. Such changes if made suddenly can sometimes cause instability which they would not do if made gradually. There are 6 figures and 5 tables.

ASSOCIATION: Vsesoyuznyy teplotekhnicheskiy institut (The All-Union Heat-Engineering Institute)

Card 2/2

14276

s/096/63/000/001/001/006 E194/E155

خابر

26.320

Influence of fuel type on the output and efficiency of AUTHOR:

TITLE:

PERIODICAL: Teploenergetika, no.1, 1963, 9-14 When burning certain types of fuel-gas, such as hydrogen or carbon monoxide, two molecules of gas react with one of nyurogen or carbon monagente, two molecules of combustion products and not oxygen to produce two molecules of combustion theory. three as is assumed in elementary gas-turbine theory, which also does not allow for changes in the enthalpy of reaction with temperature. Existing methods of analysing Sas-turbine cycles with allowance for these effects are cumbersome, inaccurate and other wise inadequate even for a simple gas-turbins cycle. It is accordingly proposed to linearise the equations governing gasturbine operation conditions, by replacing differentials of functions by their increments. This gives linear equations in the

 $K_1^{\delta P_1} + K_2^{\delta T_1} + K_3^{\delta G_1} + \cdots$ following form:

Card 1/3

S/096/63/000/001/001/006 E194/E155

Influence of fuel type on the ... E194/E155

where K₁, K₂, K₃ etc are numerical coefficients determined by
the parameters of the initial conditions;

 $\delta P_{i} = \Delta P/P; \quad \delta T_{i} = \Delta T/T; \quad \delta G_{i} = \Delta G/G - C$

are relative changes in these parameters. Changes in gas-turbine output and efficiency on changing the fuel type are determined by solving systems of these linear equations, some of which express the characteristics of individual components of the installation (compressors, turbines, heat exchangers) and others the relationships between these components in the particular turbine circuits. Some of the equations will contain free terms reflecting such properties of the working medium as the mean specific heat over the temperature range considered, or the iscentropic index. The equations are then formulated and are applied to a simple gas-turbine cycle without regeneration to show that when burning H2 or CO the output and efficiency are 6 - 7% less than with liquid fuel or natural gas. In practice, conditions are still worse because compressors operate less efficiently on gas fuel than on air. To illustrate this, calculations are made for a Card 2/3

OL'KHOVSKIY, G.G., inzh.

Evaluation of the efficiency of regeneration in gas turbine systems.

Teplcenergetika 11 no.6:26-27 Je '64. (MIRA 18:7)

1. Vsesoyuznyy teplotekhnicheskiy institut.

SHUVALOV, G.I., kand. tekhn. mauk; ca. KHOVSKII, G.G., insh.

Trends in the development of stationary gas turbine systems in the U.S.S.R. Teploenergetika 11 no.9:2-6 S '64. (1884 18:8)

1. Vsesoyuznyy teplotekhnicheskiy institut.

OL'KHOYSKIY, G.G., kand. tekhm. nauk

Reduction of the results of the tests of gas turbine power systems to predeterminate conditions. Teploemergetika 11 no.12:53-56 D 164 (MIRA 18:2)

1. Vsesoyuznyy teplotekhnicheskiy institut.

EPA/EWP(f)/EPF(n)-2/T-2/ETC(m)UR/0096/65/000/009/0047/0051 ACC NR: AP6000786 AUTHOR: Ol'khovskiy, G.G. (Candidate of Tech. Sci.) ORG: All-Union Heat Technology Institute (Vsesoyuznyy teplotekhnicheskiy institut) TITLE: Precision requirements in experiments on stationary gas turbine plants SOURCE: Teploenergetika, no.9, 1965, 47-51 TOPIC TAGS: gas turbine engine, measurement, heat transfer, power plant component ABSTRACT: The article considers complex gas turbine installations consisting of a number of working elements: turbines, compressors, combustion chambers, heat exchange equipment, regenerators, and air coolers. General considerations are formulated, on the basis of which it is possible to determine the accuracy required in measurement of in-dividual parameters and, on the basis of practical experiments, to determine the values of permissible measurement errors. After a mathematical and statistical development based on the heat and power balances of the system, the article concludes with a table showing the maximum permissible deviations of the individual parameters from their average values during the whole time of the experiment. These permissible devi-UDO: 621.438.621.3.088.3.001.5

L 10552-66

ACC NR: AP6000786

ations are as follows: electrical load, %--±2.5; fuel consumtion, liquid, %--±2.5; fuel consumption, gas, %--±4.0; heat of combustion, kcal/kg-±100; gas temperature before turbine, °C--±20; temperature of atmosphericair, °C--±1.5; temperature of cooling water, °C--±1.5; fuel temperature, °C--±10; barometric pressure, mbar--±0.5 moisture content of atmosphericair, gr/kg dry air--±5; and, rpm of generator, %--±1.5. If, in the course of the experiment, the variations of the individual parameters exceed the above limits, the duration of the experiment and the number of readings must be increased. Orig. art. has: 1 figure and 8 tables.

SUB CODE: 13/ SUBM DATE: 00 / ORIG REF: 002/ OTH REF: 000

Card 2/2 ()(1)

KHRISTICH, V.A., kand. telden. nauk; OL'KHOVSKIY, G.G.; CHERNIN, Ye.N., inzh.; BASHKATOV, Yu.N., inzh.; SHEVCHENKO, A.M., inzh.; TUMANOVSKIY, A.G., inzh.; GOFORETS, V.S., inzh.

Some results of the tests and adjustment of the combustion chambers of the gt-25-700 and gtn-9-750 gas turbine power systems. Teploenergetika 12 no.2:16-20 F *65. (MIRA 18:3)

1. Vsesoyuznyy ordana Trudovogo Krasnogo Znameni teplotekhnicheskiy institut imeni F.E. Dzerzhinskogo; Kiyevskiy politekhnicheskiy institut i Leningradskiy metallicheskiy zavod.

OL'KHOVSKIY, G.G., kand. tekhn. nauk

Heat tests of the CT-25-700-1 gas turbine system. Teploenergetika 12 no.5:16 -20 Mg. 165. (MIRA 18:5)

1. Vsecoyuznyy teplotekhnicheskiy institut.

ANDRYUSHCHENKO, Anatoliy Ivanovich; LAPSHOV, Vitaliy Nikolayevich; LOZHKIN, A.N., prof., doktor tekhn. nauk, retsenzent; CL'KHOVSKIY, G.G., red.

[Steam-gas systems of electric power plants; thermodynamic and technical economic analysis of operating cycles and thermal networks] Parogazovye ustanovki elektrostantsii; termodinamicheskii i tekhniko-ekonomicheskii analizy tsiklov i teplovykh skhem. Moskva, Energiia, 1965. 246 p. (MIRA 18:3)

SOURCE CODE: UR/0096/65/000/005/0016/0020 P4739-66 ACC. NR. AP6015526 AUTHOR: Ol'khovskiy, G. G. (Candidate of technical sciences) ORG: All-Union Institute of Thermal Engineering (Vsesoyuznyy teplotekhnicheskiy institut) TITIE: Thermal tests of gas-turbine installation type GT-25-700-I IMZ SOURCE: Teploenergetika, no. 5, 1965, 16-20 TOPIC TAGS: gas turbine, electric power plant/GT-25-700-I IMZ gas turbine ABSTRACT: Thermal tests on the first prototype of a type GT-25-700-I LMZ gas-turbine installation after the first finishing stage are described. A capacity of 22 megawatts and an efficiency of 24% were obtained. Technical possibilities are indicated for raising these values to the calculated design values of 25 megawatts and 28% respectively. Orig. art. has: 4 figures and 2 tables. [JPRS] SUB CODE: 10 / SUBM DATE: none / ORIG REF: 004 Card 1/1

L 31978-66 ENP(f)/T-2 WW SOURCE CODE: UR/0098/66/000/005/0013/0018 ACC NR. AP6013386 (A,N) SOURCE CODE: UR/0098/66/000/005/0013/0018
ACC NM AP6013386 (A,W) Sounds AUTHOR: Ol'khovskiy, G. G. (Candidate of technical sciences); Fridrikh,
AUTHOR: 01 knovskiy, 0. 0.
that on Heat Technology Institute
teplotekhnicheskiy institut)
depression of start-up conditions for a type
teplotekhnicheskiy institut, TITLE: Experimental investigation of start-up conditions for a Type
1 Gri-25 PMZ 882 cm 23.2
SOURCE: Teploenergetike, no. 5, 1966, 13-18
Sounds. Topas dynamics, electric main
TOPIC TAGS: gas turbine engine, combustion gas dynamics, electric motor, contrastion chamber, ignific / Type GT-15 LM2 gas furbine contrastion chamber, ignific / Type GT-15 LM2 gas furbine contrastion chamber, ignific / Type GT-15 LM2 gas furbine appearance of a single-shaft power pas turbine
Construction chamber, ignifice / Type GT-25 LM2 goe further construction chamber, ignifice / Type GT-25 LM2 goe further construction of an experimental 23 ABSTRACT: The article presents the results of an experimental 23 ABSTRACT: The article presents the results of an experimental 23 ABSTRACT: The article presents the results of the indivi-
13122111111 - P + P + P 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2
investigation of the operation of the characteristics of the installation and a determination of the characteristics of the shaft installation and a determination of the characteristics of the shaft installation during start-up conditions. The shaft dual elements of the installation during start-up use of a start-up the group was initially set into rotation by use of a start-up the shaft of t
installation and a determination during start-up conditions. dual elements of the installation during start-up conditions.
of the turbine er of motor with a phase room and of
up non-synchronous and repull replay sections Results
of the turbine group was introduced with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a celerated to a rate of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor. Alternation of up non-synchronous electric motor with a phase rotor with
was switched on, the turoine gives a scheme of the apparatus. No 900-1000 rev/min. The article gives a scheme of the apparatus. It was found that of a series of experiments are exhibited graphically. It was found that
UDG: 621.438.62-57.001.5
UDG: 621.4130.02-27.00=27
Cord 1/2
the state of the s

1 31978-66

ACC NR: AP6013386

during the start-up the temperature in front of the turbine varied smoothly and did not exceed 650-600°C. It was found that the power of the start-up motor was sufficient to accelerate the rotation rate of the gas turbine installation up to 1000 rev min which is suitable for ignition of the combustion chamber. Ignition of the combustion chamber did not present difficulties; burning of the fuel was stable under all start-up conditions, without signs of vibration. The exhaust was light and clean. Considerable expenditures of external energy are necessary for acceleration up to a rate of 1500-1600 rev min. The efficiency of the compressors under all conditions was 80-85%, that is, sufficiently high. The efficiency of the turbine was 80-85%. It was found that the coordination of the individual stages and the heat losses during the heating up of the turbine had only a slight effect on its efficiency. Orig. art. has: 7 figures.

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 006

cord 2/2 IC

IJP(c) RH ENT(d)/ENP(c)/ENP(v)/T/ENP(k)/ENP(1) L 40204-66 EVIT(d SOURCE CODE: UR/0111,/66/000/001/0002/0003 64 AUTHOR: Polishchuk, V. L. (Engineer); Orlov, M. D. (Engineer); Chernin, Ye. N. (Engineer); Reznichenko, V. Ya. (Engineer); Kotov, Yu. V. (Engineer); Bodrov, I. C. (Engineer); Yamalutdinov, I. T. (Engineer); Ol'khovskiy, G. G. (Candidate of technical sciences) ORG: none TITLE: Results of testing first model and series examples of gas turbines GTN-9-750 of Leningrad Metallurgical Plant im. XXII CPSU Congress SOURCE: Energomashinostroyeniye, no. 4, 1966, 2-8 TOPIC TAGS: gas turbine, pipeline, centrifugal pump, electric power production, turbine design, turbine compressor/GTN-9-750 gas turbine, NG-280-9 centrifugal pump ABSTRACT: A description of the testing of the 9000 kw GTN-9-750 gas turbine, designed to drive the NO-280-9 contrifugal pipeline pump, used on the Bukhara-Ural gas pipeline. The tests showed that the actual power produced in operating conditions is 8,750 kw, efficiency 25%. The maximal power produced without additional equipment and regenerators is 9600-10,000 kw. The characteristics of the main elements of the turbine were found to be near the design characteristics: the adiabatic efficiency of the compressor is 89%, the low and high pressure turbine sections operate at 85% and 89-90% efficiency. Long-term testing with repeated stops and starts showed that the unit as modified from the prorotype to suitable for operation in the gas pipeline system. Orig. art. has: 5 figures, 7 formulas and 3 tables. [JPRS: 36,501] SUB CODE: 13, 10 / SUBM DATE: none / ORIG REF: 002 621.438.001.43

ACC NR: AP6015714

(MA)

SOURCE CODE: UR/0413/66/000/009/0126/0126

INVENTOR: Ol'khovskiy, G. G.; Pridrikh, A. M.

ORG: None

TITLE: Gas turbine unit. Class 46, No. 181449 [announced by the All-Union Heat Engineering Scientific Research Institute im. F. E. Dzerzhinskiy (Vsesoyuznyy teplotekhnicheskiy nauchno-issledovatel'skiy institut)]

SOURCE: Izobreteniya, promyahlennyye obraztay, tovarnyye znaki, no. 9, 1966, 126

TOPIC TAGS: gas turbine engine, engine auxiliary equipment, engine compressor system, engine control system

ABSTRACT: This Author's Certificate introduces a gas turbine unit which contains an antistall line for permitting the passage of compressed air from the compressor into the gas-air duct preceding the compressor or following the turbine. The available energy of the flowing air is used by equipping the antistall line with injection and ejection units at the intake of the gas-air duct.

BUB CODE: 21/ BUDM DATE: 08Dec64

Cord 1/1

UDC; 621.438

100mm 100mm

OL'KHOYSKIY, I.A.; GOLOY, V.K.; BAS'YAS, I.P., redaktor; KEL'NIK, V.P., redaktor isdatel'stva; KOYALENKO, B.I., tekhnicheskiy redaktor.

[Advanced experience in producing cast steel products; experience of the Novo-Tagil refractory plant] Peredovoi opyt proisvodstva staleraslivochnykh izdelii; opyt novatorov N.-Tabil'skogo ogneupornogo savoda. Sverdlovak, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954, 59 p. (MLRA 7:11)

(Powder metallurgy)

OL'KHOVSKIY, I.A.; PANASKNKO, D.S.

Ladle brick production from Kumak deposit clays. Ognempory 20 no.7: 298-302 .155. (MLRA 9:1)

1.Ural'skoys otdeleniye instituta ogneuporov (for Ol'khovskiy), 2.Ogneupornyy tsekh Orsko-Khalilovskogo metallurgicheskogo kombinata (for Panasenko).

(Firebrick) (Kumak--Fire clay)

OL'KHOVSKIY, I.A.; D'YACHKOYA, Z.S.; SHVARTSMAN, I.Sh.; PROKOP'YEVA, A.M.; RUBSHTEYN, Ya.I.

Increasing the stability of stoppers for pouring electrical steel.
Ogneupory 22 no.11:520-523 '57. (MIRA 11:1)

l. Ural'skoya otdeleniya Laningradskogo institute ognauporov (for Ol'khovskiy, D'yachkova, Shvartsman). 2. Verkh-Isetskiy metallurgicheskiy zavod (for Prokop'yeva, Rubshteyn).

(Refractory materials)

(Smelting-Equipment and supplies)

AUTHORS:

Olikhovskiy, I. A., Ignatova, T. S

807/131-90-0-7/13

TITLE:

Experimental Production of Fireclay-less

bemi-Acid Products made From Primar, Kaclin Found at Chikmakul'sk and Semi-Acid Clay Found at Nighne-Uvel'sk (Opyty proigvodstva beashamotnykh polukislykh izdelij iz chikmakul'skogo pervichnogo kaolina i nighne-uvel'skoy

polukisloy gliny)

PERIODICAL:

Ogneupory, 1958, Nr 8, pp 345-351 (USSR)

ABSTRACT:

The following persons took part in these experiments: 1) of the Metallurgical Mosbinat Pishniy Tagil (Nichne-Tagilishiy metallurgicheskiy kombinat): N. F. Besnyak, V. S. Turchaninov. P. T. Timchenko, Kh. M. Papakin, V. V. Klopov, L. P. Siyalova; P. T. Timchenko, Kh. M. Papakin, V. V. Klopov, L. P. Siyalova; 2) of the Ural Department of the Leningrad Refractories Institute (Uraliskoye otdeleniye Leningradskogo instituta ognetute (Uraliskoye otdeleniye Leningradskogo instituta ognetuporov): I. Sh. Shvartsman, V. G. Flagin, K. I. Bobrov (Ref. 1). The chemical composition of kaolin expressed in 36: SiO₂-72,4; The chemical composition of kaolin expressed in 36: SiO₂-72,4;

Al₂C₃-26,4; Fc₂O₃-0,4; CaO-0,2; MgO-0.3, burning loss 8,2%, refractoriness 1730°. The minimalogical continuous fractoriness 1730°. The minimalogical continuous acre carried given in table 1. Proof of the continuous acre carried

Card 1/4

sov/131-58-8-2/12

Experimental Production of Fireclay -less Semi-Acid Products Made From Primary Kaolin Found at Chikmakul'sk one Semi-Acid Clay Found at Nizhne- Uvel'sk

out in the laboratory of the VHIIO by P. D. Pystikop as well as by N. V. Gul'ko (Ref 2). The thermal analysis of kaglin (Fig 1) shows 2 effects: the endothermal effect at 580° and the exothermal effect at 1025°. On the curve of continuous shrinkage (Fig 2) an elongation of the sample may be observed up to 500°, after which it shrinks until a temperature of 1350° is attained. The linear shrinkage as well as the second sorption of water by the burned kaolin mamples are shown by table 2. Table 3 shows the chemical composition and the refractoriness of the semi-acid clays found at Nizhne-Uvel'sk; figure 3 snows the thermogram and figure 4 the curve of continuous shrinkage. The linear shrinkage and the absorption of water by the samples are shown in table 4. Furthermore, the production of kaolin and clay samples is discussed. The composition of macs and the properties of the burned samples are given by table 5. Table 6 shows the properties of samples which are produced from masses having different moisture contents and produced under different pressures. The Refractories Department of the Metallurgical Kombinat of Nizhniy-Tagil pro-

Card 2/4

SOV/131-58-8-2/12

THE REPORT OF THE PROPERTY OF THE PARTY OF T

Experimental Production of Fireclay-less Semi-Acid Products Hade From Primary Kaolin Found at Chikmakul'sk and Semi-Acid Clay Found at Nizhne-Uvel'sk

duced a quantity of bricks containing no fireclay by means of the semi-dry pressing method. The chemical composition and refractoriness of the kaolin and clay of experimental material are given in table 7. The technological scheme of this material may be seen from figure 5. Furthermore, the production of this test quantity is described in detail. The bricks were dried for 32 hours in a tunnel-drying-plant at temperatures of 75 - 127° and were burned in a round kiln at 1400° for 41 hours. The physical and mechanical properties of these fireclay-less products are given by table 8. The bricks were then subjected to a practical test in the metallurgical furnace of the Kombinat (Table 9). The petrographical investigation of the worked bricks was then carried out by the petrographical expert of the Ural Department of the Leningrad Refractories Institute, T. P. Raychenko (Ref 3). Conclusions: 1) Experiments showed that fireclay-less products may be made from these raw materials. 2) It was found that they are equivalent to fireclay products. 3) The manufacture of these products may be described as economical. 4) Experiments

Cará 3/4

507/131-58-8-2/12

Experimental Production of Fireclay-lass Semi-Acid Procucts Made From Frimary Kaolin Found at Chikmakul'sk and Semi-Acid Clay Found at Nizhne-Uvel'sk

are intended to be continued on a large industrial scale. There are 5 figures, 9 tables, and 8 references, 8 of which are Soviet.

ASSOCIATION:

Ural'skoye otdeleniye Leningradskogo instituta ogneuporov (Ural Department of the Leningrad Institute of Refractories)

Card 4/4

15(6) 30V/131-38-11-5 9

AUTHORS: Olikhovskiy, I. A., Shvartsman, I. Sh.

TITLE: Experiments for the Increase of Heat Stability of Tiphon Bricks

(Opyty povysheniya termicheskoy stoykosti sifonnogo kirpicna)

PERIODICAL: Ogneupory, 1958, Nr 11, pp 498-504 (USSR)

ABSTRACT: It is often observed that in siphon casting of steel the siphon

bricks burst, which causes loss of metal. It was assumed that this happens because of the ferrostatic pressure of the metal. In order to check this assumption, a device was developed by I. P. Bas'yas and T. F. Shutenko (Ref 1) to determine the tearing strength of siphon bricks. It was discovered that ferrostatic pressure during the casting process is much lower in the bricks (1,5-2kg/sq.cm) than their tearing strength (34 kg/sq.cm). Tests of heat stability according to the method of the Leningradskiv institut ogneuporov (Leningrad Institute of Refractory Materials)showed that in these tests siphon bricks burst in the same way as in steel casting. Tests with pre-heated bricks (see table) did not yield any positive results either. A. V. Azbukin and T. N. Bushuveya took part in the experiments. Shvartsman

and T. N. Bushuyeva took part in the experiments. Shvartsman Card 1/3 suggested to produce siphon bricks in two layers by means of a

SOV/131-58-11-3/9

Experiments for the Increase of Heat Stability of Siphon Bricks

nozzle (Figs 2 and 3). A comparison of nozzle sizes for regular and two-layer siphon bricks can be seen in table 1. In the Department of Refractory Products of the NTMK two experimental series of two-layer siphon bricks were produced whose physicomechanical properties did not differ from those produced in the traditional way. V. S. Turchaninov, Kh. M. Papakin, N. D. Gan, and L. P. Siyalova took part in the production of these experimental series (Ref 4). One series of bricks had an interstitial space of 0,82 mm and the other of 0,60 mm (Fig 4). The heat stabilities of two-layer and traditional siphon bricks are given in table 2. The nature of the cracks after tests according to the method of the Leningrad Institute of Refractory Materials is shown in figures 5, 6, and 7. As can be seen in table 5, the majority of the two-layer bricks were not cracked all the way through. In figures 8 and o regular and two-layer siphon bricks are shown after the casting of liquid cast-iron, demonstrating that two-layer bricks, in spite of bursting on the surface, were impermeable to the metal, as the inner layer was not demaged. Conclusions: siphon bricks possess sufficient strength for withstanding the ferro-static pressure in steel casting; the

Card 2/3

SOV/131-58-11-3/9

Experiments for the Increase of Heat Stability of Siphon Bricks

cause of bursting of siphon bricks is their insufficient heat stability; a considerable increase of heat stability can be obtained by producing two-layer siphon bricks. There are 9 figures, 3 tables, and 3 references, which are Soviet.

ASSOCIATION: Ural skoye otdeleniye Leningradskogo instituta ogneuporov (Ural Department of the Leningrad Institute of Refractory Products)

Card 3/3

Ol'khovskiy, I. A., Diyesperova, H. I. 507/131-59-6-5/15 15(2) AUTHORS: Investigation of the Influence of Ladle Bricks on the Impurity of Steel, Carried out by Means of the Isotope Ca TITLE: (Izucheniye s pomoshch'yu izotopa Ca45 vliyaniya kovshevogo kirpicha na zagryazneniye stali)

Ogneupory, 1959, Nr 6, pp 258-262 (USSR) PERIODICAL:

KP-4 with

Card 1/2

Collaborators of the NTMK, of the Nizhne-Serginskiy Works, and of the Ural'skiy institut metallov (Ural Institute for ABSTRACT: Metals) M. I. Tsekhanskiy, N. I. Shishkina, K. B. Khusnoyarov, G. D. Susloparov and M. S. Mikhalev took part in this investigation (footnote). Opinions differ however, as far as the amount of non-metallic inclusions are concerned which are brought into the steel by the ladle lining. Grigoryan and Samarin speak of 17.9% of the total amount of inclusions, while Karachentseva estimates them to 1.6%. The influence of the ladle bricks on the impurity of steel was examined by means of isotopes which were inserted into the chamotte when the bricks were produced. The ladle bricks KP-3 and radioactive isotopes Ca 45 were pressed according

Investigation of the Influence of Ladle Bricks on the SOV/131-59-6-5/15 Impurity of Steel, Carried out by Means of the Isotope Ca45

to the semidry method. The display of the isotope is shown by a curve in figure 1. Measurements were taken by means of the radiometrical unit B-2 with the frontal gasmeter MST-17. The activity of the mass is given in table 1. Furthermore the values of the chamotte products are given. Figure 2 represents a radiograph showing the cross section of a ladle brick. The influence of ladle bricks on the impurity of boiling steel G-18 was examined with a casting ladle having a capacity of 65 t, and a block weight of 500 - 520 kg. In addition, the influence of siphon bricks was examined. The amount of radioactive inclusions in the slag (Table 2), and in the products (Table 3) is shown. As can be seen from them, the percentage of steel impurity caused by ladle bricks, is only small. Finally the necessity of further investigations in this field is pointed out. There are 4 figures, 3 tables, and 6 Soviet references.

ASSOCIATION:

Card 2/2

Vostochnyy nauchno-issledovatel'skiy i proyektnyy institut ogneupornoy promyshlennosti (Eastern Scientific Research and Design Institute of the Industry for Refractories)

s/131/60/000/05/03/016 B015/B011

AUTHORS:

Ol'khovskiy, I. A., Shvertsman, I. Sh., Diyesperova, H. I.

TITLE:

Experiments of Producing and Utilizing Unburned Fire-clay

Products From Ural Raw Materials

PERIODICAL:

Ogneupory, 1960, No. 5, pp. 207-213

TEXT: On the basis of techniques worked out by the Vostochnyy institut ogneuporov (East Institute of Refractories), the department of refractories of the Nizhne-Tagil'skiy metallurgicheskiy kombinat (NTMK) (Nizhniy Tagil Metallurgical Kombinat) produced sample sets of unburned fire-clay and fireclay-quartz products by the half-drying method. The following persons took part in this work: V. S. Turchaninov, Kh. M. Papakin, P. T. Timchenko, V. V. Klopov, V. K. Golov (Deceased), Zh. A. Vydrina, N. A. Novoselov, P. P. Borodin, V. G. Flyagin. The binding part of the layer consisted of a mixture of belkinskaya and nizhneuvel'skaya clay types. The products were dried at 200-2200. Table 1 shows the properties of unburned products tested in the furnaces of the Nizhniy Tagil Metallurgical Kombinat. Table 2 shows results

Card 1/2

KRYAZHEV, G.S.; OL'KHOVSKIY, G.P.; KONOVALOV, B.T.

Regularities in the distribution of mineralization in the Buron ore field. Isv. vys. ucheb. zav.; tavet. met. 4 no.5: 15-23 '61. (MIRA 14:10)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra poleznykh iskopayemykh i poiskovo-razvedochnogo dela.

(Buron region--Ore deposits)

(Geology, Structural)

OL'KHOVSKIY, I.A., inzh.

Damage and incomplete switching operation of VMG-133 oil cutouts.

Prom. energ. 17 no.9:22-23 S '62. (MIRA 15:8)

(Electric cutouts)

(Electric power distribution--Equipment and supplies)

s/0131/61/000/002/0089/0092

ACCESSION NR: APHO13188

AUTHORS: Olikhovskiy, I. A.; Sartakov, Yu. A.

TITLE: Rice husk as a burning admixture in the production of light refractories

SOURCE: Ognoupory*, no. 2, 1964, 89-92

TOPIC TAGS: refractory material, light weight refractory, burning admixture, rice husk admixture, lightin admixture, anthracite admixture, coke admixture, rice husk, lightin, anthracite, coke, ChPKl clay, BL-1.0 light refractory, ITl clay, IT2 clay, rice husk burning capacity, rice husk ash, BL-1.3 refractory

ABSTRACT: The authors present the results of a study of rice husk qualities and the possibility of its use in the production of light refractories. Rice husk characteristics are compared to those of sawdust, lignin, anthracite, and coke used for the same purpose. The experiments showed that the use of husk without a preliminary processing produced poor results. Therefore, the husk was ground to the following fractional composition: 33% of 2.5-1 mm; 32.5% of 1.0-0.4 mm; 15.5% of 0.4-0.25 pm; 19% smaller than 0.25 mm. The positive features of rice husk were its low moisture absorption, good grindability, and high ash content (it

Card 1/2

ACCESSION NR: APhol3188

was possible to use this ash instead of fire clay). Clay ChPKl and light served as raw material in the experiments. An attempt was made to produce the light weight refractories by the method of plastic semi-dry pressing with subsequent baking. It was established that according to their burning capacity the materials tested can be arranged in the following declining order: sawdust, rice husk, light. The weight loss in the samples containing rice husk was considerably larger than that in samples containing sawdust and light. Orig. art. has: 5

ASSOCIATION: Krasnodarskiy filial NIIMontazhspets'troy (Krasnodar Branch of NIIMontazhspets'stroy)

SUBMITTED: 00

DATE ACQ: O2Mar64

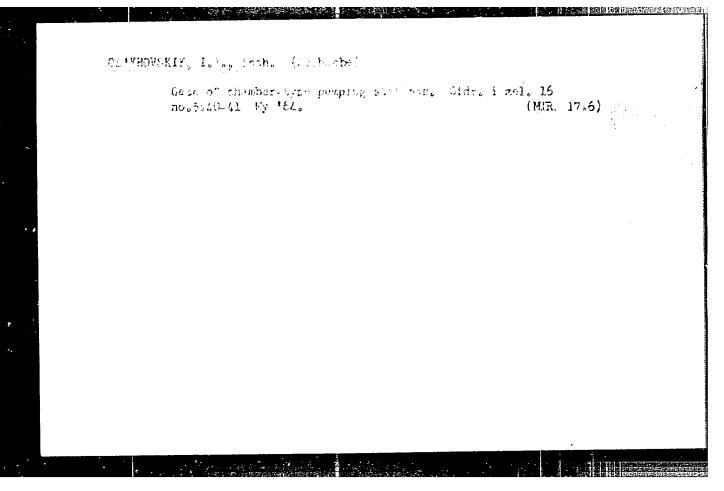
ENCL: 00

SUB CODE: ML

NO REF SOV: OOL

OTHER: OO1

Card 2/2



OL'KHOVSKIY, I.A.; ZVEREV, V.S.; KRINICHANSKAYA, L.A.; Prinimali uchastiye: BUHIM, L.L.; TAINKIN, A.S.; RUDNITSKIY, B.I.

Increasing the resistance of firebox hearths in steam boilers with liquid slag removal. Consupory 30 no.12:16-19 165. (MIRA 18:12)

1. Krasnodarskiy filial Nauchno-issledovatel skogo instituta po montazhnym i spetsial nym stroitel nym rabotam (for Ol khovskiy, Zverev, Krinichanskaya).

OLYHOVSKIY, I. I.

Became the second control of the con

"The Role of Different Moments of Distribution Function and the Influence of Boundaries on Translational Dispersion of Sound Velocity in Monatomic Gases."

paper presented at the 4th All-Union Conf. on Accustics, Moscow, 26 May - 2 Jun 58.

25

10(2)-10.4000

Ol'khovskiy, I.I.

SOV/155-58-4-24/34

AUTHOR: TITLE:

On Onedimensional Equations of Generalized Hydrodynamics (Ob odnomernykh uravneniyakh obobshchennoy gidrodinamiki)

Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye

PERIODICAL:

nauki, 1958, Nr 4, pp 143 - 148 (USSR)

THE RESERVE AS A SECOND OF THE PERSON.

ABSTRACT:

The present paper completes the publication [Ref 2] of the author. He sets up the onedimensional equations of generalized hydrodynamics (see [Ref 2]) under consideration of the impulse- and energy transfer of the relative motion. The equations generalize the 13-moments-approximation of H. Grad / Ref 1 7. The author thanks N.N. Bogolyubov, Member of Academy for discussions. - There are 4 references, 1 of which is Soviet,

1 French, and 2 English.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni N.V. Lomonosova

(Moscow State University imeni M.V. Lomonosov)

SUBMITTED:

May 30, 1958

Card 1/1

24(+) 24,1800

Ol'khovskiy, I.I.

AUTHOR: TITLE

On the Relaying Dispersion of Ultrasonics in Monoatomic Gases (O translyatsionnoy dispersii ul'trazvuka v odnostomnykh gazakh)

PERIODICAL:

Nauchnyje doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 4, pp 181 - 190 (USSR)

ABSTRACT:

The author gave a report on the contents of the present paper at the IV-th All-Union Conference for Acoustics on May 28,1958. Up to now in the investigation of the relaying dispersion of sound waves the consideration restricts itself to the case

 $\mathcal{E} = \mathcal{D} \stackrel{\triangle}{\sim} << 1$, where p is the gas pressure, white viscosity,

V the acoustic frequency. The author uses the equations of generalized hydrodynamics set up by him (see [Ref 9]7), in order to investigate in the present paper the case:

 $\mathcal{D} \overset{\mu}{\sim} \ll 1$ as well as the case $\mathcal{D} \overset{\mu}{\sim} \gtrsim 1$. He sets up generalized acoustic equations and the corresponding dispersion relations.

Card 1/2

31

On the Relaying Dispersion of Ultrasonics in Monostomic Gases

SOV/155-58-4-30/34

In the case $\mathcal{E}\ll 1$ the solutions are given with the exactness up to ε^2 , in the case $\varepsilon > 1$ they are numerically calculated. In the limit case $\varepsilon > 0$ one obtains classical resulta. The 4, 5 and 6 - moment approximations give a qualitatively other picture than in the paper of Chapman, the solution is finite for the whole & interval, there are no increasing solutions. In the demain & 2.1 under constant pressure and temperature the frequency enlargement leads to certain boundary values for velocity and damping. The formulas show good coincidence with the experiment. The author thanks N.N. Bogolyubov, Academician, for discussions. There are 2 figures, 3 tables, and 11 references, 4 of which are Soviet, 6 American, and ? German.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova

(Moscow State University imeni M.V. Lomonosov)

SUBMITTED:

May 30, 1958

Card 2/2

10(4) AUTHOR:

Ol'khovskiy, I. I.

SOV/20-123-2-14/50

TITLE:

On a Boundary Problem of Generalized Hydrodynamics (O granichnoy zadache obobshchennoy gidrodinamiki)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 262-265 (USSR)

ABSTRACT:

The present paper intends to formulate the boundary conditions of generalized hydrodynamics for a heat-conducting boundary moving in a nonuniform manner; special attention is paid to onedimensional linear problems. A certain element of the boundary surface is assumed to move with the velocity $\overline{\mathbf{U}_q}(t)$. The following further assumptions are made: The parts of the gas atoms felling upon this surface element is diffusely reflected by it, and part (1-s) is reflected mirror-like. The diffusely reflected gas atoms in this case satisfy Maxwell's (Maksvell) velocity distribution (with respect to the velocity of the surface element). The corresponding boundary condition is explicitly written down; in the case of an immobile boundary, it goes over into Maxwell's condition. As all particles of gas impinging upon the wall are immediately reflected, there is no flow of gas particles passing through this wall. The

Card 1/2

On a Boundary Problem of Generalized Hydrodynamice

307/20-123-2-14/50

calculation process is followed step by step. The boundary condition thus obtained is the kinetic boundary condition for a heat-conducting boundary accommodation moving in a nonuniform manner. The author then investigates such conditions as were imposed upon the hydrodynamic quantities by the aforementioned relation. After several steps the boundary condition of generalized hydrodynamics for onedimensional problems is obtained. Finally, some linear boundary conditions for onedimensional flows are derived; the boundary conditions concerned are those of generalized acoustics for onedimensional problems. The author thanks N. H. Bogolyubov, Academician, for discussing the results. There are 4 references, 1 of which is Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

June 30, 1958, by N. N. Bogolyubov, Academician

SUBMITTED:

June 23, 1958

Card 2/2

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238020002-3

SOV/20-123-5-14/50

10(2) AUTHOR:

101 khovskiy, I. I.

TITLE:

On a Linear Boundary Problem of Generalized Hydrodynamics (Ob odnoy lineynoy granichnoy zadache obobshchennoy gidro-

dinamiki)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 821-824

(USSR)

ABSTRACT:

This paper deals with the solution of the simplest boundary problem of generalized hydrodynamics which is the acoustic part of the theory of the ultrasonic interferometer. The author investigates the following scheme of the interferometer: There are 2 infinite parallel planes which reflect the gas atoms like a mirror and which do not conduct heat. Between these planes, there is a monoatomic gas and the radiating plane x = 0 oscillates according to a harmonic law of infinitely small amplitude, the plane x = a does not move. In this case, the behavior of the gas is described by linear homogeneous equations of generalized hydrodynamics. For the sake of simplicity, these equations are investigated with

Card 1/4

an exactness up to the moments of second order, i.e. the effects

sov/20-123-5-14/50

On a Linear Boundary Problem of Generalized Hydrodynamics

of heat conduction in the gas are neglected. The initial equations of this problem are

$$\frac{\partial \mathbf{n}^{\prime}}{\partial \mathbf{t}} + (\mathbf{c}_{\mathbf{e}})_{\mathbf{o}} \frac{\partial \mathbf{u}^{\prime}}{\partial \mathbf{x}} = 0, \quad \frac{\partial \mathbf{u}^{\prime}}{\partial \mathbf{t}} + (\mathbf{c}_{\mathbf{e}})_{\mathbf{c}} \frac{\partial \mathbf{P}^{\prime}}{\partial \mathbf{x}} = 0;$$

$$\frac{\partial P'}{\partial t} + \frac{5}{3} (c_e)_0 \frac{\partial u'}{\partial x} = 0 ; \frac{\partial P'}{\partial t} + 3(c_e)_0 \frac{\partial u'}{\partial x} = \frac{6}{\tau} (P' - P'_{11}).$$

It holds that
$$n' = \Delta n/n_0$$
; $u' = \Delta u/(c_e)_0$; $P'_{11} = \Delta P_{11}/P_0$;

$$P' = \Delta P/P_0$$
; $(c_e)_0 = \sqrt{kT_0/m}$. (The quantities with the index o correspond to the steady state, but the quantities of the type Δn correspond to the deviations from the steady state). In denotes the number of the particles, u - the average velocity of the gas particles, P_{11} - a component of the stress tensor, τ - a time of the order of magnitude of relaxation time. Finally, it holds that $P = (1/3) \sum_{i=1}^{N} P_{ii}$. The

Card 2/4

SOV/20-123-5-14/50

On a Linear Boundary Problem of Generalized Hydrodynamics

boundary conditions are given and the solution of the above system is sought as $n' = \operatorname{Re}\left[e^{i\omega t}n'(x)\right], \quad u' = \operatorname{Re}\left[e^{i\omega t}u'(x)\right], \quad P = \operatorname{Re}\left[e^{i\omega t}P'(x)\right],$ $P'_{11} = \operatorname{Re}\left[e^{i\omega t}P'_{11}(x)\right]. \quad \text{The operations are discussed step}$ by step and the expressions for the solution of the boundary problem are given explicitly. The usual conclusions from adiabaticity apply also in the present case. In contrast to usual acoustics, $\Delta P_{11} \neq \Delta P \text{ (in the general case). The}$ expression for $\Delta P_{11} \text{ (but not for } \Delta P \text{ !) gives the excess}$ pressure (with respect to steady pressure) in the direction perpendicular to the boundary surfaces. An expression for $\Delta P_{11} \text{ is given in the form of J. C. Hubbard (Khabbard). The}$ main result of this paper is the decrease of the damping of ultrasound for $1 > r \rightarrow 0.$ The results of this paper are based on the kinetic equation of Boltzmann (Bol'tsman) for monoatomic gases. The author thanks Academician N. N. Bogolyubcy

Card 3/4

SOV/20-123-5-14/50

On a Linear Boundary Problem of Generalized Hydrodynamics

for his useful discussion of this paper. There are 1 table

and 8 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED: July 22, 1958, by N. N. Bogolyubov, Academician

SUBMITTED: July 17, 1958

Card 4/4

10(4) AUTHOR:

Ol'khovskiy, I. I.

SOV/20-126-4-16/62

TITLE:

i Prancisco de la grafia de la capación de la capación de On a Method of Moment-approximation in Generalized Hydrodynamics (O metode momentnykh priblizheniy v obobshchennoy gidro-

STATE OF THE PROPERTY OF THE P

dinamike)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 4,

pp 748 - 751 (USSR)

ABSTRACT:

In the introduction to the present paper it is said that in the Boltzmann equation the limits of the quantity $\varepsilon = \Delta t_{p}/\Delta t$

are not taken into account and that in a number of papers the cases & ≪ 1 and &> 1 were investigated (Refs 1-4). Here, the solution of the Boltzmann equation is given without any limitation with respect to & . The distribution function is represented as a threedimensional Hermitian polynomial (1), and further the system of equations (2) developed in one of the author's earlier papers (Ref 2) is mentioned, which was obtained from the Boltzmann equation. If (1) is introduced into (2), the system of equations of general hydrodynamics is obtained. In part 2 the main properties of the system of equations

Card 1/3 :

(2) are discussed, and in part 3 a solution of (2) is suggested,

On a Method of Moment-approximation in Generalized Hydrodynamics

507/20-126-4-16/62

in which the moments of higher degree are neglected. In this way a system of equations of first, second, third approximation is obtained, from which, by summation with respect to the quantities P_{ii}, the equations for the conservation of the ener-

gy of the various approximations are obtained. Finally, it is found that for the case & 1 the solutions of (2) furnish known results. For arbitrary values of & some approximation methods are then mentioned, and in conclusion it is said that from the here obtained equations (5), (6), and (7) the solution of the boundary problem of generalized hydrodynamics is possible. The author thanks N. N. Bogolyubov for his advice and for discussing the results obtained. There are 7 references, 4 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

Card 2/3

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238020002-3

On a Nethod of Moment-approximation in Generalized 50V/20-126-4-16/62 Hydrodynamics

PRESENTED:

February 25, 1959, by N. N. Bogolyubov, Academician

SUBMITTED:

February 5, 1959

Card 3/3

M

DISR/Cultivated Plants. Fruits. Berries.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20504.

Author : M.K. Ol'khovskiy

: Not given. Inst

: The Best Strayberry Varieties. (Luchshiye sorts zemlyan-Title

iki).

Orig Pub: Kolgospnik Ukraini, 1956, No 12, 34.

Abstract: On the variety testing plots at Luganskoye and Zhitomir in Zhitomirskaya Oblast', at Kiev and Skylra in Kiyevs-

kaya Oblast' and at Vozdvizhensk in Sumskaya Oblast', a study of strawberry varieties was made. Of the 9 standard varieties high productivity was shown by the Culver Mysovka, and at the Kiev and Luganskoye plots by the Koralka. Among the new varieties, one found the high yielding varieties to be the Korallovaya 100, Korallo-

: 1/2 Card

USSR/Cultivated Flants. Fruits. Berries.

11

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68361

Author : Konstantinov, P. K., Olikhovskiy, M. K.

Inst : -Title : The Best

. The Best Strayberry Strains in Polesia and

in the Ukrainian Wooded Stoppe Zones.

Orig Pub : Sad i ogorod, 1957, No 2, 50-52

Abstract: The Culver strawberry strain occupies first place in terms of yields, fruit size, and taste qualities. The Koralka strain occupies second place, and constitutes the most valuable preserving kind. In Lugansk, Zhitordr, and Suny Oblast's, the Mysovka strain is outstanding in terms of yields. Kiev Early No 2 is the earliest-riponing strain. It ripons 7-8 days carlier than the Roshchinskaya strain. In 1955,

Card : 1/2

DONTSOV, P. F., OL'IMOVSKIY, H. V.

Mbr., Gor'kiy Milling Machine Plant (-1945-)

"High-Speed Milling," Stanki i Insatrument, 16, Mos. 7-8, 1945

BR-52059019

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238020002-3

OL'RHOVSKIY, H. V.

"Planing instead of Scraping" Stanki I Instrument, 17, No. 9, 1946

BR-52059019

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238020002-3

ON, KHe	V. V.
USSR/Miscell	areous - Industrial processes
Card 1/1	Pub. 103 - 4/22
Authors	1 Berdnikov, B. A., and Ol'khovskiy, N. V.
Title	1 To increase the stability of cutting movements on metal-cutting machines
Periodical	s Stan. 1 instr. 12, 12-15, Dec 1954
Abstract	Various measures for the elimination of torsional vibrations and for increasing the stability of cutting movements on metal cutting machines are introduced. The reasons for the origination of torsional vibrations of machine spindles are explained. Table; graphs; drawing.
Institution	
Submitted	

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238020002-3

OL KHOVSKIYN.V.

USSR/ Engineering - Machine construction

Card 1/1

Pub. 103 - 9/19

Authors

Khitrun, N. M., and Ol'khovskiy, N. V.

Title

! Hole boring with automatic change of mandrels

Periodical | Stan. i instr. 2, 28 - 30, Feb 1955

Abstract

The construction of a new, special turret-type boring-lathe model 1c33 is ennounced. The mechanical characterisities and mode of operation of the new automatic boring machine are described. Because of the mechanized process of mandrel changing the lathe offers meximum reduction in labor efforts connected with the charging of the tool and mechanism changes. Diagrams; illustration.

Institution

Submitted:

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238020002-3

OL'KHOVSKIY, N.V.; VOLKOV, S.I.

Electric upsetting of billets. Stan.i instr. 30 no.3:28-30 Mr '59.

(Forging)

ANUFRIYEV, V.A.; KHITRUN, N.M.; OL'KHOVSKIY, N.V.; BOLOTIN, A.I., inzh., retsenzent; VIADIMIROV, V.H., inzh., red.

[Large-lot production of milling machines] Krupnoseriinos proizvodstvo frezernykh stankov. Moskva, Mashinostroenie, 1965. 206 p. (MIRA 18:4)

The state of the s

OL'RHOVSKIY, V.N.

Nethod of sampling to determine the amount of tare in beets.

Sakh.prom. 29 no.6:8-9 '55.

1.Sadovskiy sakharnyy savod.

(Sugar beets)

ANDREYEV, G.S., kand, tekhm. nauk; BOKUCHAVA, G.V., kand. tekhm. nauk, dots.; BRAKHMAN, L.A., inzh.; BUDNIKOVA, A.V., inzh.; GORDON, M.B., kand. tekhm. nauk, dots.; ZHAVORONKOV, V.H., inzh.; KARZHAVINA, T.V., kand. tekhm. nauk; KOROTKOVA, V.G., inzh.; KORCHAK, S.N., inzh.; KLUSHIN, M.I., kand. tekhm. nauk, dots.; KUZMETSOV, A.P., kand. tekhm. nauk, dots.; KURAKIN, A.V., inzh.; KUZMETSOV, A.P., kand. tekhm. nauk, dots.; RURAKIN, A.V., inzh.; CLIKHOVSKII, V.N., inzh.; ORLOV, B.M., LATISHEV, V.N., inzh.; OSHKR, R.N., inzh.; PODGORKOV, V.V., kand. tekhm. nauk [deceased]; inzh.; SILIVESTROV, V.D., kand. tekhm. nauk [deceased]; TIKHONOV, V.M., inzh.; TROITSKAYA, D.N., inzh.; KHRILIKOV, V.A., inzh.; LESNICHENXO, I.I., red. izd-va; BOKOLOVA, T.F., tekhm. red.; GORDEYEVA, L.P., tekhm. red.

[Lubricating and cooling fluids and their use in cutting metals]
Smazochno-okhlazhdaiushchie zhidkosti pri rezanii metallov i
tekhnika ikh primeneniia. Moskva, Gos. nauchno-tekhn. izd-vo
tekhnika ikh primeneniia. 291 p.
(MIRA 15:1)
mashinostroit. lit-ry, 1961. 291 p.
(Metalworking lubricants)

BELOZEROV, V.G., (Kursk, ul. Engel'sa d.136, kv.27); SKVORTSOV, B.A. (Leningrad, ul. Gryuza pechatnikov, d.7.kv.26); PARKHOMCHUK, Ya. (Leningrad, ul. Soyuza pechatnikov, d.7.kv.26); TRAUBE, Ye.S. (Donetsk, 5, ul. Shchersa, d.12. kv.8); DROZDOV, A.D. (Novocherkassk, ul. B.Khmel'nitskogo d.151. kv.26); VAYNBERG, A.M. (Moskva, V-180, Malaya Yakimanka, d.22, kv.19); kv.26); VAYNBERG, A.M. (Moskva, V-180, Malaya Yakimanka, d.22, kv.19); FILATOV, M.A. (Kemerovo, ul. Dzerzhinskogo d.27, kv.11); GANZBURG, L.B. (Ieningrad P-3, Krasnosel'skaya, d.12, kv.2); BUDANOV, V.D. (Moskva, (Leningrad P-3, Krasnosel'skaya, d.12, kv.2); BUDANOV, V.D. (Moskva, A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, Chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, chuksin tupik, d.4, kv.17); LYSENKO, N.G. (Kiyev, ul. Sulimov-A-287, chuksin tupik

Discoveries and inventions. Prom.energ. 19 no.7:55-56 J1 *64. (MIRA 18:1)

1. Bereznikovskiy sodovyy zavod, byuro po ratsionalizatsii i izobretatelistvu, Permskaya obl., g. Berezniki (for Trushchev).
2. Yaroslavli, Tutayevskoye shosse, d.32, YaZMOGK (for Okhapkin).
3. Kharikov, pr. Moskovskiy, d.199, Kharikovskiy elektromekhanicheskiy zavod, byuro po ratsionalizatsii i izobretatelistvu (for Olikhovskiy).

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238020002-3

17.4-11

**Thermilius, Valentin Valentinovich and Ol'khovskii, Vladimir Evgen'evich, Okeanografila | Dremlius, Valentin Valentinovich and Ol'khovskii, Vladimir Evgen'evich, Okeanografila | Decanography in the service of contemporary na sinzhbe sovremennogo sudovozhderila | Oceanography in the service of contemporary sover | Decanography | Decanograp

AKHLYNOV, I.Ya.; BASALAYEV, V.N.; DANILENKO, O.T.; ZAKHAROV, A.D.; OL'KHOVSKIY, V.Ye.; YAKOVLEV, V.I.; KUZ'MINA, V.S., red,

[Mamual for navigators of fishing fleets; navigation of fishing boats and sea fishery practices] Sprayochnik dudovoditelia rybolovnogo flota; promyslovaia navigatelia i morskaia promyslovaia praktika. Moskva, Pishchevaia promyshlennost', 1965. 194 p. (MIRA 18:9)

1. Glavnoye upravleniye rybnoy promyshlennosti Azovo-Chernomorskogo basseyna (for Basalayev). 2. Polyarnyy nauchno-issledovatel'skiy institut rybnogo khozyaystva i okeanografii (for Danilenko). 3. Murmanskoye vyssheye morekhodnoye uchilishche (for Yakovlev). 4. Gosudarstvennaya inspektsiya bezopasnosti moreplavaniya i portovogo nadzora flota rybnoy promyshlennosti SSSR (for Zakharov).

OL'KHOVSKIY, Vladimir Yevgen'yevich; YUSHCHENKO, A.P., redaktor; ANAN'IN, y.I., redaktor izdatel'stva; TIKHONOVA, Ye.A., tekhnicheskiy redaktor

[Determining a ship's position by means of radio; problems in navigation] Opredelenie mesta sudna pri pomoshchi radiotekhnicheskikh sredstv; voprosy navigatsii. Moskva, Izd-vo "Mcrskoi transport."

(MLRA 9:9)

(Radio in navigation)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238020002-3"

A. D. Colon of the Market Market State of the control of

BOGDASHIN, A.S.; BOGORODSKIY, A.A.; VINGARRT, N.B.; GORBUNOV, V.I.;

GORBUNOV, V.R.; DUROV, V.K.; YERMAKOV, A.L.; IVANOV, A.A.;

KARAKOVA, B.I.; KOBYLYAKOV, L.M.; KOZLOVSKIY, D.I.; MARAKHTANOV,

K.P.; MIRUMYAN, G.N.; HECHRTOV, G.P.; HOVIKOV, A.G.; GL*KHOVSKIY,

K.I.; PESTRYAKOV, A.I.; POLAPANOV, A.V.; SKLYAREVSKAYA, Ye.Kh.;

SOLDATANKOV, S.I.; SOROKIN, Ye.M.; TRUSHINA, Z.V.; FEDOROV, P.F.;

PEDOSRYEY, A.M.; FROG, H.P.; SHAMMYEV, G.P.; YANOVSKIY, V.Ya.;

OREKHOV, A.D., spetsred.; DEJEYA, V.M., tekhn.red.

[Handbook on new agricultural machinery] Spravochnik po novoi tekhnike v sel'skom khoziaistve. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1959. 364 p. (MIRA 13:2)

(Agricultural machinery)

BURAYTSEV, Nikolay Vasil'yevich; VLADIMIRSKIY, Grigoriy Alekseyevich; GORDON, Vladimir Osipovich; OL'KHOVSKIY, Leonid Andreyevich; RODICHOVA, Z.A., red.; KONNEYEVA, V.I., takha. red.

[Mechanical drawing; manual for students of pedagogical institutes] Cherchenie; posobie dlia studentov pedagogicheskikh institutov. Izd.2., perer. [By] N.V.Buravtsev i dr. Moskva, Uchpedgiz, 1963. 399 p. (MIRA 17:1)

THE PROPERTY OF THE PROPERTY O

OL'KHOVSKIY, L.G. [Ol'khovs'kyi, L.H.], nauchnyy sotrudnik

The second of th

Deep furrow openers for fertilizer placement. Mekh. sil'. hosp. 12 no. 3:20-22 Mr '61. (NIRA 14:4)

1, Umanskiy sel'skokhozyaystvennyy institut.
(Fertilizer spreaders)

83823

s/190/60/002/005/013/015 B004/B067

15.8108 also 2209

AUTHORS:

Kozlov, P. V., Makaruk, L., Fomin, V. N., Olikhovskiy

V. I. * OLIKOVSKIY, V.I. (MIRA DOWNEL)

Studies in the Field of Polycarbonates. I. Effect of the TITLE:

Molecular Weight on the Transition Temperatures of Poly-

carbonates

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2. No. 5. PERIODICAL:

pp. 770-777

TEXT: The authors wanted to study the influence exerted by the molecular weight on the thermomechanical properties and the transition temperatures of polycarbonates. The polymers obtained by V. N. Kotrelev at the Nauchno-issledovatel'skiy institut plastmass, Moskva (Scientific Research Institute of Plastics, Moscow) by phosgenating 2,2-bis-(4'-oxyphenyl)propane in homogeneous and heterogeneous media were used. They were dissolved in methyl chloride and fractionally precipitated by means of methanol. Fig. 1 shows the intrinsic viscosity as a function of the concentration for polymers with molecular weights of 20,000 and 235,000. As is shown Card 1/3

83823 s/190/60/002/005/013/015 B004/B067

Studies in the Field of Polycarbonates. I. Effect of the Molecular Weight on the Transition Temperatures of Polycarbonates

Card 2/3

by Fig. 2, polymers synthesized in a heterogeneous medium have an anomalous distribution of molecular weights. The thermomechanical properties and the transition temperatures were studied for fractions with molecular weights of from 5,000 to 220,000 (Figs. 3-5, Table). The low-molecular fractions showed no softening point but passed directly from the vitreous into the viscous state. After crystallization, their transition temperature was 70°C higher. In polymers with higher molecular weight and a polymerization degree of 40, the chains became flexible on heating. These products became highly elastic. A further temperature increase, however, led to hardening as a result of crystallization (Fig. 6). In low-molecular polymers it occurred at lower temperatures than in high-molecular ones. The polymers having the highest molecular weight showed the typical behavior of amorphous polymers. According to their molecular weight, polycarbonates have the properties of both crystallizing and amorphous polymers. As to the flexibility of the chains, they hold an intermediate position between polyisobutylene and polyvinyl chloride, although polycarbonate products are characterized by high strength and hardness. This contradiction is explained by a specific steric structure of the large polycarbonate

83823

Studies in the Field of Polycarbonates. I. Effect of the Molecular Weight on the Transition Temperatures of Polycarbonates

S/190/60/002/005/013/015 B004/B067

molecules, by strong intermolecular interaction, and by the assumption of secondary structural formations in polycarbonate products. The authors thank V. A. Kargin for a discussion. There are 6 figures, 1 table, and 18 references: 8 Soviet, 2 US, 1 British, and 5 German.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED:

February 2, 1960

Card 3/3

KOZLOV, P.V.; MAKARUK, L.; FOMIN, V.N.; OL'KOVSKIY, V.I.

Polycarbonates. Part 1: Mfect of molecular weight on the transition temperatures of polycarbonates. Vysokom.soed. 2 no.5:770-777 Hy 160. (MIRA 13:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Carbonates)